

## Abstract

Please replace the Abstract with the following Abstract:

A recording and playback system is provided. The system includes an audio capturing device configured to receive an analog input and an encoder coupled to the audio capturing device configured to generate a digital signal based on the analog input. The system further includes a recognition engine coupled to the audio capturing device and configured to generate text data based on the analog input, wherein the encoder and the recognition engine simultaneously generate the digital signal and the text data such that the digital signal and the text data can be provided in a synchronized manner.